

CLAIMS

1. A vaporization water distribution plant consisting of at least one feeding collector (13) with nozzle-holder ramps (15) equipped with a series of nozzles (14), in  
5 which there are tighteners (18, 24) both for the assembly and blockage of the nozzle-holder ramps (15) with respect to said at least one collector (13), and also of the nozzles (14) to said nozzle-holder ramps (15), both said blockages being effected with the interposition of wash-  
10 ers (22, 27).
2. The vaporization water distribution plant according to claim 1, characterized in that its size and configuration are such as to be able to tolerate the operating conditions established by use in vaporization chambers  
15 and by functioning characteristics of feeding pumps (11), installed upstream of the present plant.
3. The vaporization water distribution plant according to claim 1, characterized in that said at least one feeding collector (13) with said nozzle-holder ramps (15)  
20 comprises a series of side openings (23) for the inflow feeding and outflow distribution of water destined for said vaporization nozzles (14).
4. The vaporization water distribution plant according to claim 3, characterized in that said openings (23) are  
25 arranged at a distance at a constant pitch between each

other or at unequal distances, in relation to the demands of the receiving plant complex.

5     5. The vaporization water distribution plant according to claim 1 or 3, characterized in that said collector (13) has a square or rectangular section.

6. The vaporization water distribution plant according to claim 2, characterized in that said at least one feeding collector (13) and said nozzle-holder ramps (15) are made of corrosion-resistant steel compatible with the  
10     physico-chemical characteristics of the circulating water.

7. The vaporization water distribution plant according to claim 1, characterized in that said nozzle-holder ramps (15) for the feeding to said nozzles are equipped  
15     with side openings (16) for the housing and fixing of said vaporization nozzles (14).

8. The vaporization water distribution plant according to claim 7, characterized in that said side openings (16) are arranged, inside each ramp (15), so as to be out of  
20     axis by 90° and/or 180°.

9. The vaporization water distribution plant according to claim 6, characterized in that the ends of said ramps (15) are equipped with threaded sections (20) for closure on one side and opening and water circulation on the  
25     other.

10. The vaporization water distribution plant according to claim 1, characterized in that said tighteners (18, 24) envisage at least one hole (19) for the passage of the circulating water which allows a hydraulic connection  
5 between the various plant components.

11. The vaporization water distribution plant according to claim 10, characterized in that said tighteners (18, 24) are envisaged with a central connection hole between the at least one side feeding hold (19) and the nozzle-  
10 holder ramps (15).

12. The vaporization water distribution plant according to claim 11, characterized in that one end is destined for the use of blocking means, preferably with a hexagonal section, and the other is threaded to be coupled with  
15 a welded sealing plate.

13. The vaporization water distribution plant according to claim 1, characterized in that said assembly tighteners (18, 24) for the connection between the nozzle-holder ramps (15) and vaporization nozzles (14) are made of corrosion-resistant steel, compatible with the physico-  
20 chemical characteristics of the circulation water.

14. The vaporization water distribution plant according to claim 13, characterized in that said tighteners (18, 24) are made of highly resistant steel by means of turning, perforating and threading operations, with work tol-  
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erances compatible with the operating pressures envisaged and higher than 50 bar.

15. The vaporization water distribution plant according to claim 1, characterized in that it envisages washers and/or sealing units (22, 27), inserted between the various assembly components and resistant to the operating pressures envisaged.

16. The vaporization water distribution plant according to claim 1, characterized in that in correspondence with a nozzle (14) there is a shaped blocking element (41; 141, 48) which guarantees a safe positioning of the nozzle on said nozzle-holder ramp (15).

17. The vaporization water distribution plant according to claim 16, characterized in that said blocking element (41) is U-shaped, is fixed in its base (42) inside a hollow housing (43) situated in a hexagonal head (44) of the tightener (24), and comprises curved elements (45) at its free ends suitable for being hooked to a plate (46) integral with said nozzle (14).

18. The vaporization water distribution plant according to claim 16, characterized in that said blocking element comprises a first blocking element (141) which has an insertion hole (49) for withholding the nozzle (14) in direct contact with a cylindrical shaped body (28) and a tongued terminal part (47) which is inserted and blocked,

by folding, in a slit (50) situated in a second blocking element (48), perforated in the centre, which is fixed on a tightener (24).